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Amendments To The Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

1-21. (Canceled)

22. (Currently amended) A method for producing a preparation for transporting at least one active ingredient through the skin or mucous membrane of a mammal comprising:

- a. selecting a pharmaceutically acceptable suspending medium;
- b. selecting at least one active ingredient;
- c. selecting a first amphiphilic lipid component and a second amphiphilic component such that the solubility of the second amphiphilic component in the pharmaceutically acceptable suspending medium is at least ten times greater than the solubility of the first amphiphilic lipid component in said medium;
- d. producing a mixture of said pharmaceutically acceptable suspending medium, first amphiphilic lipid component, second amphiphilic component and at least one active ingredient;
- e. producing a vesicle suspension by means of applying energy to the mixture, said vesicles comprising liquid droplets suspended in of the suspension medium, each of the liquid droplets encompassed within- provided with a sheath sheath of one or more layers, the sheath comprising said first and second amphiphilic components, wherein said active ingredient being is contained in said liquid droplets, or in said sheath, or in both said liquid droplets and said sheath,

wherein said first and second amphiphilic components and said active ingredients are further selected such that, independently of the concentrations of the first and second amphiphilic components and the active ingredient, no solubilization of the vesicles in the suspension occurs and are further selected such that the permeation capability of the vesicles through barriers or constrictions in the skin or mucous membrane of a mammal increases disproportionately or nonlinearly under increasing pressure.

23. (Currently amended) The method of claim 22, characterized in that the content of amphiphilic components is adjusted, so that the ratio of the permeation capability relative to reference particles, water particles, which are much smaller than the constrictions in the barrier,

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for example water, when the barrier itself is the site of determination, is between 10^{-5} and 1, preferably between 10^{-4} and 1 and especially between 10^{-2} and 1.

24. (Currently amended) The method of claim 22 wherein stability and/or permeation capability are determined by filtration under pressure through a filter having pore size ranging from about 30 to about 100 nm, or by controlled mechanical whirling up, shearing or comminuting.

25. (Previously presented) The method of claim 22, wherein the stability and permeation capability is determined by mechanical comminuting effects.

26. (Currently amended) The method of claim 22 wherein the vesicle preparation is produced from at least two amphiphilic components of different polarity, at least one polar pharmaceutically acceptable medium and at least one active ingredient.

27. (Previously presented) The method of claim 22, wherein said amphiphilic component(s) comprises or contains the active ingredient, and said vesicles are formed from at least two amphiphilic components of different polarity and at least one polar pharmaceutically acceptable medium.

28. (Currently amended) The method of claim 22 wherein said amphiphilic components and a hydrophilic substance are mixed separately with an said active ingredient separately from said suspending medium and optionally brought into solution and are then combined with said suspending medium, and to form vesicles are then formed by supplying mechanical energy.

29. (Previously presented) The method of claim 22 wherein said amphiphilic components, either as such or dissolved in a physiologically compatible solvent or solutizer, which is miscible with a polar liquid or liquids, are combined with a polar pharmaceutically acceptable medium.

30. (Currently amended) The method of claim 22, wherein said vesicles are formed by a method selected from the group consisting of stirring; evaporation from a reverse phase; an

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injection method; a dialysis method; electrical stressing; thermal stressing; a mechanical stressing selected from the group consisting of shaking, stirring, homogenizing, ultrasonication, flubbing, freezing, thawing, heating and cooling; and high pressure filtration and low pressure filtration.

31. (Previously presented) The method of claim 22, wherein the formation of the vesicles is brought about by filtration and the filter material used in said filtration has a pore size of 0.01 to 0.8 μm .

32. (Currently amended) The method of claim 22, wherein the association between carrier and active ingredients takes place at least partially after the liquid droplets have formed.

33. (Currently amended) The method of claim 22, wherein shortly before use, the vesicle suspension enveloped droplets are prepared, ~~from a~~ is concentrated or lyophilized ~~sate, which~~ was prepared from said vesicle suspension.

34-48. (Canceled)

49. (Previously presented) The method of claim 23, wherein the permeation relative to water is between 10^{-4} and 1.

50. (Previously presented) The method of claim 23, wherein the permeation relative to water is between 10^{-2} and 1.

51. (Previously presented) The method of claim 31, wherein the filter material has a pore size of 0.05 to 0.3 μm .

52. (Currently amended) The method of claim 31, wherein the formation of the filter material has a pore size of 0.08 to 0.15 μm .

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53. (Currently amended) A non-invasive method of using a preparation in the form of vesicles suspended in a liquid suspension medium, the vesicles comprising a sheath of at least one layer of amphiphilic carrier substance, said amphiphilic carrier substance comprising at least two physiochemically different amphiphilic components, at least two of said components differing in their solubility in said liquid suspension medium by a factor of at least 10, wherein the amphiphilic components are selected such that independently of their concentration a solubilization of said vesicles does not occur and are further selected such that the permeation capability of the vesicles through barriers or constrictions in the skin or mucous membrane of a mammal increases disproportionately or nonlinearly under increasing pressure, the method comprising:

applying the preparation to a permeation barrier selected from the skin and mucous membranes of a mammal and

allowing the vesicles to transport at least one active ingredient for medicinal or biological purposes into and through the permeation barrier.

54. (Previously presented) The method of claim 53, wherein the solubility of the more soluble component(s) is at least 10^{-3} M to 10^{-6} M and the solubility of the less soluble component is at least 10^{-6} M to 10^{-10} M.

55. (Previously presented) The method of claim 53, wherein the difference between the solubility of the more soluble component(s) and the less soluble component(s) is approximately between 10 M and 10^7 M.

56. (Previously presented) The method of claim 55, wherein the difference between the solubility of the more soluble component(s) and the less soluble component(s) is approximately between 10^2 M and 10^6 M.

57. (Previously presented) The method of claim 55, wherein the difference between the solubility of the more soluble component(s) and the less soluble component(s) is approximately between 10^3 M and 10^5 M.

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58. (Previously presented) The method of claim 53, wherein the preparation permeating through said skin or mucous membrane has a permeability of at least 0.001% of the permeability of small molecules, which permeate essentially without being impeded.

59. (Previously presented) The method of claim 53, wherein the permeation capability relative to reference particles $P_{(\text{transfer.})}/P_{(\text{refer.})}$, the reference particles being water, is between 10^{-5} M and 1 M.

60. (Previously presented) The method of claim 59, wherein the permeation capability relative to reference particles $P_{(\text{transfer.})}/P_{(\text{refer.})}$, the reference particles being water, is between 10^{-1} M and 1 M.

61. (Previously presented) The method of claim 59, wherein the permeation capability relative to reference particles $P_{(\text{transfer.})}/P_{(\text{refer.})}$, the reference particles being water, is between 10^{-2} M and 1 M.

62. (Previously presented) The method of claim 53, wherein the content of said at least one active agent in the preparation does not change significantly during transport through the skin or mucous membrane.

63. (Previously presented) The method of claim 62, wherein the sheath is a double layer.

64. (Previously presented) The method of claim 53, wherein the vesicle radius of the vesicles is between about 25 nm to about 500 nm.

65. (Previously presented) The method of claim 64, wherein the vesicle radius is between about 50 nm and about 200 nm.

66. (Previously presented) The method of claim 64, wherein the vesicle radius is between about 80 nm and about 100 nm.

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67. (Previously presented) The method of claim 53, wherein said amphiphilic components comprise lipids of different polarity.

68. (Previously presented) The method of claim 67, wherein the less polar amphiphilic lipid component is a phospholipid, and a second, more soluble amphiphilic component is an active ingredient, the concentration of the more soluble component(s) being between 0.01% by weight and 15% by weight.

69. (Previously presented) The method of claim 68, wherein the concentration of the more soluble component(s) is between 0.1% by weight and 10% by weight.

70. (Previously presented) The method of claim 68, wherein the concentration of the more soluble component(s) is between 0.1% by weight and 3% by weight.

71. (Previously presented) The method of claim 68, wherein the total lipid concentration being between about 0.5% by weight and 15% by weight.

72. (Previously presented) The method of claim 68, wherein the total lipid concentration being between about 1% by weight and 10% by weight.

73. (Previously presented) The method of claim 68, wherein at least one amphiphilic lipid component is selected from the group consisting of a diacyl or a dialkyl glycerophosphoethanolamino azo polyoxyethylene derivative, a didecanoyl phosphatidyl choline, a diacyl phosphooligomaltobionamide, a glyceride, a glycerophospholipid, a isoprenoid lipid, a sphingolipid, a steroid, a half protonated liquid fatty acid, a phosphatidyl choline, a phosphatidyl ethanolamine, a phosphatidyl glycerol, a phosphatidyl inositol, a phosphatid acid, a phosphatidyl serine, a sphingomyelin, a sphingophospholipid, a glycosphingolipid, a cerebroside, a ceramide polyhexoside, a sulfatide, a sphingoplasmalogen, a ganglioside, and a glycolipid.

74. (Previously presented) The method of claim 53, wherein at least one amphiphilic component is a synthetic lipid.

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75. (Previously presented) The method of claim 53, wherein at least one amphiphilic lipid component is selected from the group consisting of a sulfur containing lipid and a hydrocarbon-containing lipid which forms stable structures.

76. (Canceled)

77. (Previously presented) The method of claim 75, wherein the stable structures are double layers.

78. (Previously presented) The method of claim 53, wherein at least one amphiphilic lipid component is selected from the group consisting of dioleoyl phospholipid, a dilinoyl phospholipid, a dilinolenyl phospholipid, a dilinoleoyl phospholipid, a dilinolinoyl phospholipid, a diarachinoyl phospholipid, a dilauroyl phospholipid, a dimyristoyl phospholipid, a dilalmitoyl phospholipid, a distearoyl phospholipid, and corresponding dialkyl or sphingosin derivatives thereof.

79. (Currently amended) The method of claim ~~73~~53, wherein ~~the~~ at least one glycosphingolipid is selected from the group consisting of cerebroside, ceramide polyhexoside, sulfatide and sphingoplasmaologen.

80. (Previously presented) The method of claim 53, wherein the less soluble amphiphilic lipid component is selected from the group consisting of a myristoleoyl, a palmitoleoyl, a petroselinyl, a petroselaidyl, a oleoyl, elaidyl, a cis- or trans- vaccenoyl, a linolyl, a linolenyl, a linolaidyl, a octadecatetracnonyl, a gondoyl, a eicosacenoyl, a eicosadienoyl, a eicosatrienoyl, a arachidoyl, a cis- or trans-docosacenoyl, a docosadienoyl, a docosatrienoyl, a docosatetracnonyl, a caproyl, a lauroyl, a tridecanoyl, a myristoyl, a pentadecanoyl, a palmitoyl, a heptadecanoyl, a stearoyl or a nonadecanoyl, a glycerol-phospholipid, a glycolipid, an acyl lipid, and an alkyl lipid.

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81. (Previously presented) The method of claim 53, wherein the total content of the amphiphilic component is between 0.01 and 40% by weight of the preparation.

82. (Previously presented) The method of claim 75, wherein the total content of the amphiphilic component is between about 0.1 and 15% by weight.

83. (Previously presented) The method of claim 75, wherein the total content of the amphiphilic component is between about 1 and 10% by weight.

84. (Previously presented) The method of claim 53, wherein the active agent is selected from the group consisting of an adrenocorticostatic agent, a β -adrenolytic agent, an androgen, and antiandrogen, an anti-parasitic, an anabolic, an anesthetic, an non-narcotic analgesic, an analeptic, an anti-allergic, an anti-arrhythmic, an anti-arteriosclerosis, an anti-asthmatic, a bronchospasmolytic agent, an antibiotic, an anti-depressive agent, an anti-psychotic agent, and anti-diabetic agent, an antidote, an anti-emetic, and anti-epileptic, an anti-fibrinolytic, and anti-convulsive agent, an anti-cholinergic agent, an enzyme, a coenzyme, a coenzyme inhibitor, an antihistamine, an antihypertensive drug, a biological activity inhibitor, an antihypotensive agent, an anticoagulant, an anto-mycotic, an antimyasthenic agent, an active ingredient against Parkinson's disease, an active ingredient against Alzheimer's disease, an anti-phlogistic, an anti-pyretic, an anti-rheumatic agent, an antiseptic, a respiratory analeptic, a respiratory stimulating agent, a broncholytic, a cardiotonic agent, a chemotherapeutic agent, a coronary dilator, a cytostatic agent, a diuretic, a ganglion blocker, a glucocorticoid, a therapeutic agent for influenza, a hemostatic agent, a hypnotic agent, an immunoglobulin, a bioactive carbohydrate, a contraceptive, a migraine agent, a mineral corticoid, a morphine antagonist, a muscle relaxant, a narcotic, a neural therapeutic agent, a CNS therapeutic agent, a nucleotide, a polynucleotide, a neuroleptic agent, a neuron transmitter, a neuron transmitter antagonist, a peptide, a peptide derivative, a ophthalmic agent, a para-sympathicomimetic or para-sympathicolytic agent, a protein, a protein derivative, a psoriasis/neurodermatitis agent, a mydriatic agent, a mood elevator, a rhinological agent, a soporific, a soporific antagonist, a sedative, a spasmolytic, a

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tuberculosis agent, a urological agent, a vasoconstrictor, a vasodilator, a virostatic agent, a wound-healing agent, and a non-steroidal anti-inflammatory agent.

85. (Previously presented) The method of claim 53, wherein the active agent is a nonsteroidal anti-inflammatory drug selected from the group consisting of diclofenac, ibuprofen, and a lithium, sodium, potassium, cesium, rubidium, ammonium, monoethyl, dimethyl, trimethylammonium or ethylammonium salt thereof.

86. (Previously presented) The method of claim 53, wherein the preparation comprises consistency modifiers selected from the group consisting of a hydrogel, an antioxidant selected from the group consisting of a probucol, a tocopherol, a BHT, an ascorbic acid, a desferroxamine or a stabilizer selected from the group consisting of a phenol, a cresol, and a benzyl alcohol.

87. (Previously presented) The method of claim 53, wherein the active agent is a growth regulating substance.

88. (Previously presented) The method of claim 53, wherein the active agent is selected from the group consisting of an insecticide, a pesticide, a herbicide or a fungicide.

89. (Previously presented) The method of claim 53, wherein the active agent is an allurement.

90. (Canceled)

91. (Canceled)

92. (Previously presented) The method of claim 22, wherein the vesicles are produced by a method selected from the group consisting of filtration, treatment with ultrasound, stirring and shaking.